



581

PIONEER 10 AND 11

72-012A-01G

- 73-019A-01E

JUPITER CLOSE ENCOUNTERS

# PIONEER 10 & 11

## JUPITER CLOSE ENCOUNTERS

72-012A-01G,

73-019A-01E

THESE DATA SETS HAVE BEEN RESTORED. THERE WAS ORIGINALLY ONE 9-TRACK, 1600 BPI TAPE WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005347	DS005347	D056409	1	12/03/73 - 12/04/73 PIO10
			2	12/03/74 - 12/03/74 PIO11
			3	DOCUMENTATION FILE

REQ. AGENT

REQ. NO.

ACQ. AGENT

DEW

V0183

WSC

PIONEER 10 AND 11

72-012A-01G

73-019A-01E

JUPITER CLOSE ENCOUNTERS

THIS DATA SET CATALOG CONSISTS OF 1 TAPE. THE TAPE IS 1600 BPI, 9 TRACK, ASCII, WITH 3 FILES. THE FIRST 2 FILES ARE DATA AND THE 3RD FILE IS DOCUMENTATION. THE TAPE WAS CREATED ON AN IBM COMPUTER. THE D AND C NUMBERS WITH THE TIME SPANS ARE AS FOLLOWS:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-56409	C-23088	FILE 1 12/03/73-12/04/73 (PIONEER 10)
		2 12/03/74 (PIONEER 11)

## PIONEER MAGNETOMETER DATA (JUPITER CLOSE ENCOUNTERS)

Pioneer magnetometer data for the close encounters with Jupiter are written in two files on a 9-track, <sup>4350</sup>1600 bpi, ASCII encoded tape. The first file contains Pioneer 10 data inside 7 Jupiter radii; the second file contains Pioneer 11 data inside 7 Jupiter radii; a third file is this documentation.

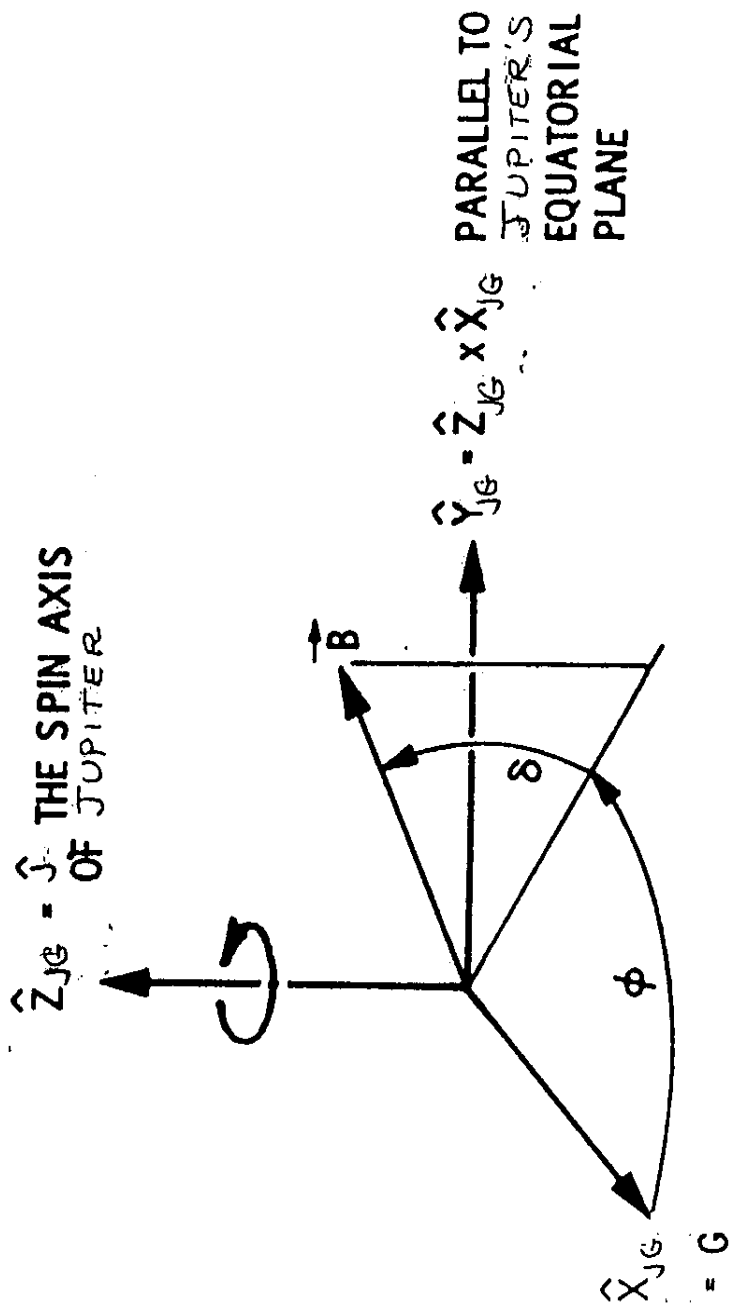
The data are in JG coordinates, defined as follows: the X axis is in the direction of G, the equatorial vector lying in the System III Prime Meridian, 1957.0; the Z axis is in the direction of J, the spin axis of Jupiter; and the Y axis is parallel to Jupiter's equatorial plane and completes a right-handed orthogonal system.

Each record is 80 bytes long, and contains the following data in the format (F7.4, 6F12.4):

DTM	Ground received time in days (3.0 = Dec. 3, 00:00). (Year = 1973 for Pioneer 10; 1974 for Pioneer 11.)
RR	Distance of Pioneer from Jupiter, in Jupiter radii.
RLTJG	Latitude of Pioneer in Jupiter-centered JG system.
RLNJG	Longitude of Pioneer in Jupiter-centered JG system.
BXJG	One-minute average of x-component of field in JG.
BYJG	One-minute average of y-component of field in JG.
BZJG	One-minute average of z-component of field in JG.

Angles are measured in degrees; fields in gammas.

# JOVIGRAPHIC (JG) COORDINATES



\$NOP \*\*\*\*\* LIST OF DO-3 \*\*\*\*\*  
 \$EXE TPLIST BS

INPUT PARAMETERS ARE: AS FL=2=2 3

TAPE NO. 1	FILE NO. 1				
RECORD 1	LENGTH 80				
3.9104	6.9908	-13.3502	268.5729	779.9504	188.6212
					-953.4458

TAPE NO. 1	FILE NO. 1				
RECORD 2	LENGTH 80				
3.9111	6.9748	-13.3562	208.0734	703.5082	181.9905
					-962.0493

TAPE NO. 1	FILE NO. 1				
RECORD 412	LENGTH 80				
4.3250	6.2887	13.7199	37.3273	928.0663	368.0292
					-1237.5220

TAPE NO. 1	FILE NO. 1				
RECORD 413	LENGTH 80				
4.3292	6.3853	13.7327	34.4665	880.6439	297.8799
					-1182.7653

TAPE NO. 1	FILE NO. 2				
RECORD 1	LENGTH 80				
3.8462	6.9927	-32.5804	319.2125	-1453.4524	1161.5741
					202.7658

TAPE NO. 1	FILE NO. 2				
RECORD 2	LENGTH 80				
3.8469	6.9745	-32.6317	318.5423	-1453.0627	1187.9883
					289.4879

TAPE NO. 1	FILE NO. 2				
RECORD 536	LENGTH 80				
3.4566	6.9603	50.0798	-297.2147	1036.4216	1502.5241
					1092.8384

TAPE NO. 1	FILE NO. 2				
RECORD 537	LENGTH 80				
3.4573	6.9785	50.0596	-297.9332	1044.3806	1481.3910
					1083.8985

TAPE NO. 1	FILE NO. 3				
RECORD 1	LENGTH 80				
PIONEER MAGNETOMETER DATA (JUPITER CLOSE ENCOUNTERS)					

TAPE NO. 1	FILE NO. 3				
RECORD 2	LENGTH 80				

TAPE NO. 1	FILE NO. 3				
RECORD 36	LENGTH 80				
Angles are measured in degrees; fields in gammas.					

TAPE NO. 1	FILE NO. 3				
RECORD 37	LENGTH 80				
END					

\*\*\*\*\* JOB DONE.

\$S  
 \$ASS IN TUG OUT MT4  
 \$EXE TPDUPC BC

D56409  
 File 1 Pioneer 10  
 File 2 Pioneer 11  
 File 3 Documentation  
 72-012A-016  
 73-019A-016